

TG789vn

Wireless n VoIP
Ultra Broadband Gateway



TELECOM

DATA

VOICE

VIDEO

Innovation at its Best

As experienced VDSL2 player and with a leading role in VDSL2 interoperability, Technicolor launches a new cream of the crop VDSL2 gateway, the Technicolor TG789vn.

The Technicolor TG789vn is a unique future-proof Voice over IP Gateway allowing VDSL2 connectivity while providing Voice over IP functions for residential and business users.

The Technicolor TG789vn offers next to 4 Ethernet ports, an additional 802.11b/g/n wireless LAN interface, and has a dedicated front end with auto-detection between VDSL2 and ADSL2+.

A dedicated Gigabit Ethernet WAN port makes the Technicolor TG789vn also the ideal service gateway for deployment in fiber-based access networks.

Future Proof Design

Thanks to the service memory platform, the Technicolor TG789vn can go a long way, not only in its hardware, but also on the software side. The most advanced features can be integrated without any problem; even third-party applications, such as Home Monitoring, helpdesk..., are easily integrated.

The innovative housing design itself is top of the class and makes customization very easy: e.g. operators can add their own brands and colours.

Features at a Glance

- Wireless networking on-board: 11b/g/n (2.4 GHz)
- Ultra Broadband connection: VDSL2 and GE uplink for fiber deployment
- 4 Ethernet ports
- 2 USB 2.0 masters
- Full FXO
- 2 FXS ports
- Remotely manageable (TR-069, TR-104, TR-098, TR-111)
- Innovative easy-customizable design
- Future proof hardware and software
- Wi-Fi Protected Setup



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Unique Voice Features

On top of all standard voice features, the Technicolor TG789vn boasts some unique voice features:

- Home Phone Assistance: an automatic service that informs users about their voice services.
- Voice to Email: email alert when voice message is left.
- Answering Machine Service...

Media Sharing

The Technicolor TG789vn acts like a central hub for distribution of all content from any device to any device in the home. You can stream music, data, pictures and video from your gateway to devices connected to your wired or wireless home network.

Easy is Key

The Technicolor TG789vn is easy to use through simple 'plug and play' and easy to install with the Home Install Wizard, making the setup of a wireless home network as easy as clicking a button.

The Home Install Wizard performs comprehensive system checks before and during the installation and setup process, and validates all user inputs to guarantee the end user a secured wireless connection to the Internet.

The Technicolor TG789vn is completely designed according to the TR-069 Data Model, through which the device can be configured remotely without any interference of the operator. In addition, TR-104 for VoIP is implemented for the configuration and management of all voice services.

The Ultimate in Ultra-Broadband

The accelerating growth of WAN and LAN traffic is pushing to look to higher-speed network technologies to solve the bandwidth crunch.

VDSL2 and Gigabit Ethernet are a means for extreme high bandwidth delivering an outstanding quality in voice, data and video.

The latest wireless N technology ensures robust in-house wireless distribution without any need for wires and makes it possible for people to be mobile without sacrificing quality or transfer speeds.

Voice over IP

The Technicolor TG789vn offers two phone connectors to accommodate a phone and fax. Once the gateway is registered with a VoIP service, regular phone calls can be conducted over the Internet with all the benefits of IP Telephony.

The gateway offers a wide range of services like caller ID, CLIR, call waiting, call forwarding, 3-way conference and message waiting notification.

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Technical Specifications

Hardware Specifications

■ Interfaces WAN	RJ11 DSL line port GE uplink Full FXO
■ Interfaces LAN	4-port autosensing 10/100Base-T auto-MDI/MDI-X Ethernet switch 2 FXS POTS interfaces 2 USB 2.0 hosts/masters Wi-Fi IEEE 802.11b/g/n on board
■ Extras	Restore factory defaults button WPS
■ Dimensions (h x d x w)	19.5 x 6 x 23cm (9 x 2.4 x 9.7 in.)
■ AC Voltage	100-240 VAC (switched mode power supply)
■ Temperature	0° - 40° C (32 - 104 F)
■ Humidity	20% to 80%

DSL Modem Specifications

■ Supports Multi Mode Standard	
■ ADSL compliance	ANSI T1.413 Issue 2, ITU-T G.992.1 Annex A, B (G.dmt), ITU-T G.992.2 Annex A, B (G.lite), ITU-T G.994.1 (G.hs) - Maximum Rate: 8 Mbps for downstream and 1 Mbps for upstream
■ ADSL2 compliance	ITU-T G.992.3 Annex A, B (G.dmt.bis), ITU-T G.992.4 Annex A, B (G.lite.bis) Maximum Rate: 12 Mbps for downstream and 1 Mbps for upstream
■ ADSL2+ compliance	ITU-T G.992.5 Annex A, B Maximum Rate: 24 Mbps for downstream and 1 Mbps upstream
■ VDSL2 compliance,	up to 17 MHz profiles (POTS/ISDN)

Management

- User Friendly GUI via HTTP and HTTPS
- GUI Easy installation wizard (OS independent)
- On demand Remote GUI assistance (helpdesk)
- Web-browsing Intercept (install / diagnostics)
- PC (Wireless) Home Network Install Wizard
- TR-69 CPE WAN Management Protocol
- TR-104 Voice Service Provisioning
- TR-98 Internet Gateway Device Management
- TR-111 Home Network Device Management
- TR-140 Storage Service Provisioning
- TR-64 LAN Side Configuration
- Zero-Touch Auto-Provisioning

Services

- Printer sharing
- Content sharing
 - Samba File Server
 - UPnP Media Server
 - DLNA DMS (certification ongoing)***
 - Metadata support
- Remote HDD file access
- USB DECT dongle support
- Parental control (Website Content Filtering) (optional)
- Open architecture for 3rd party application development

Wireless Performance and Security

- IEEE 802.11b/g/n access point
- Wi-Fi® CERTIFIED*
- WEP™, WPA™-Personal / WPA2™-Personal certified*
- Wi-Fi Multimedia - WMM™ certified*
- Wireless Protected Setup (WPS certified*)
- Up to 4 SSID support
- Security and service segregation per SSID
- Dynamic rates switching for optimal wireless rates up to 130 Mbps
- Manual/auto radio channel support

Firewall Security

- Stateful Packet Inspection Firewall
- Customizable Firewall Security Levels
- Intrusion Detection and Prevention (DoS, SYN Flood, Ping of Death, Fraggle, LAND, Teardrop, etc.)
- Website URL Filtering
- DMZ

Enabling Technologies

- Quality of Service: ATM, Ethernet, Wi-Fi, IP
- FLEXIBundLE: Multi Role User Authorization
- Hyper-Nat: Symmetrical NAT with Application Helpers
- Game and Application Sharing NAT PortMaps
- «SIM-lock» Provider Locking
- DHCP Conditional Serving & Relay, DNS Server & Relay
- IGMPv3 proxy (FastLeave)
- IGMP snooping (Full routed)
- Flexiport (any Ethernet port bridged IPTV)
- IEEE802.1q VLAN bridging, Multiple Bridge Instances

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Technical Specifications

Voice over IP Features

■ Voice Functionality

Signalling: SIP, MGCP(O), H.323(O)

Codecs: G.711, G.726, G.729,
Wideband (G.722), T.38

Flexible Telephone number per FXS
and DECT Handsets, including
Common Numbers

Interoperable with main market
softswitches

■ FXO

Fully flexible dial plan for PSTN/VoIP
outgoing calls

Prefix for PSTN/VoIP switch

Lifeline backup: manual and
automatic PSTN / VoIP

Incoming call detection on PSTN

■ Supplementary and Advanced Services

Call waiting (on call basis)

Caller Identification

Call forwarding (No answer/Busy/
Unconditional)

Call transferring

Call hold, call return

CLIP (Calling Line Identification
Presentation)

CLIR (Calling Line Identification
Restriction)

CNIP (Calling Name Identification
Presentation)

CNIR (Calling Name Identification
Restriction)

Fax transparency

3-way conference

MWI (Message Waiting Indicator)

Missed call e-mail

Click to dial

Warm line

Call Completion to Busy Subscriber

Forced FXO

Abbreviated number

Common DECT number

Common number in/outgoing call

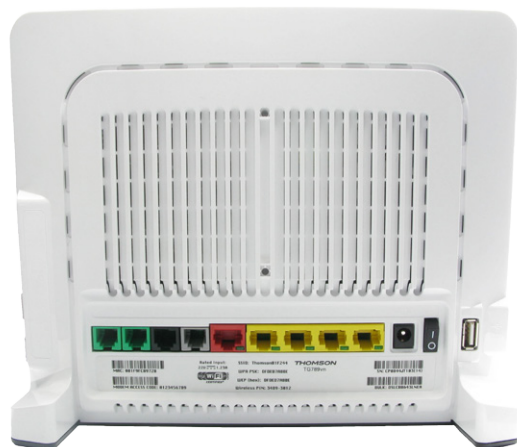
Anonymous Call Rejection

Distinctive Ringing

Voice Mail on No Reply

Support for Secondary Outbound
Proxy

DNS NAPTR, DNS SRV



TG789vn back panel

* Wi-Fi CERTIFIED™ is a registered certification mark and WPA™, WPA2™, WPA™-Personal, WPA2™-Personal, and WMM™ are trademarks of the Wi-Fi Alliance.

** UPnP™ is a certification mark of the UPnP™ Implementers Corporation.

*** DLNA™ and DLNA™ Certified are registered trademarks of the Digital Living Network Alliance.

Content of the Box

- Wireless VoIP Residential VDSL Gateway
- DSL cable (RJ11)
- 2 Ethernet cables (RJ45)
- Power supply unit
- Setup CD
- Safety Reference Leaflet
- Filter or splitter (optional)

Technicolor Professional Services are available to address your demands for qualified technical support & warranty, product maintenance, access to training courses and tailor-made solutions to specific product evolution. For more information, please ask your usual contact person.

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